

Exhibit A

**To The Declaration of
Kris Kimbrough In Support Of
Kelora's Opposition to Defendants'
Claim Construction Brief and
Motion for Summary Judgment
of Invalidity and Noninfringement**

NAVIGATE.C

```

//
//      CPC
//
#include <ctype.h>
5  #include <direct.h>

#include "NAVIGATE.h"

#include "c:\accsysx\include\db4.h"          // AccSys header file
10  #include "C:\c600\utils\db4_win.h"
#include "AMP_DB.h"
#include "helpid.h"

int FindCurrentID(WORD, struct FEATURES *, int);
15  void ChangeGroupsState(char, char, struct FEATURES *, int);
void ReadRecords(struct FEATURES *, int);
void UpdateControlStatus(HWND, int, struct FEATURES *, int);
void MergeRecordLists(void);

20  char CPCPath[64];
short xScreen, yScreen;                      // Screen size (X & Y)
HBRUSH hWhiteBrush, hBlackBrush;
long MatchingParts[200], Matching2[200];
int List1Len, List2Len;
25  char szTempBuffer[100];
BOOL bHelpCalled = FALSE;
LPSTR lpHelpFile = "C:\\NAVIGATE\\NAVIGATE.HLP";
int PASCAL WinMain(HANDLE hInstance, HANDLE hPrevInstance, LPSTR lpszCmdLine,
int nCmdShow)
30  {
    /*****
    /* HANDLE hInstance;          handle for this instance          */
    /* HANDLE hPrevInstance;      handle for possible previous instances */
    /* LPSTR lpszCmdLine;         long pointer to exec command line      */
35  /* int nCmdShow;              Show code for main window display      */
    /*****

MSG          msg;                          // MSG structure to store your messages
int          nRc;                          // return value from Register Classes
40  long      nWndunits;                    // window units for size and location
int          nWndx;                        // the x axis multiplier
int          nWndy;                        // the y axis multiplier
int          nWidth;                       // the resulting width and height for this
int          nHeight;                      // window
45

strcpy(szAppName, "NAVIGATE");
hInst = hInstance;
if(!hPrevInstance)
{
50  /* register window classes if first instance of application      */
    if ((nRc = nCwRegisterClasses()) == -1)
    {
        /* registering one of the windows failed                      */
        LoadString(hInst, IDS_ERR_REGISTER_CLASS, szString, sizeof(szString));
55  MessageBox(NULL, szString, NULL, MB_ICONEXCLAMATION);
        return nRc;
    }
}

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    }

    xScreen = GetSystemMetrics (SM_CXSCREEN);          // Assign Global
Variables
5    yScreen = GetSystemMetrics (SM_CYSCREEN);

    // Create a device independant size and location
    nWndunits = GetDialogBaseUnits();
    nWndx = LOWORD(nWndunits);
10    nWndy = HIWORD(nWndunits);
    nWidth = ((260 * nWndx) / 4);
    nHeight = ((125 * nWndy) / 8);

    /* create application's Main window */
15    hWndMain = CreateWindow(
        szAppName,          /* Window class name */
        "AMP Navigator",    /* Window's title */
        WS_CAPTION |        /* Title and Min/Max */
        WS_SYSMENU |        /* Add system menu box */
20    WS_MINIMIZEBOX |      /* Add minimize box */
        WS_MAXIMIZEBOX |    /* Add maximize box */
        WS_THICKFRAME |     /* thick sizeable frame */
        WS_CLIPCHILDREN |   /* don't draw in child windows areas */
    /*
25    WS_OVERLAPPED,
        CW_USEDEFAULT, CW_USEDEFAULT,          /* Use default X, Y */
    /*
        nWidth, nHeight,          // Width, Height of window
30    NULL,          /* Parent window's handle */
        NULL,        /* Default to Class Menu */
        hInst,        /* Instance of window */
        NULL);        /* Create struct for WM_CREATE */

35    if(hWndMain == NULL)
    {
        LoadString(hInst, IDS_ERR_CREATE_WINDOW, szString, sizeof(szString));
        MessageBox(NULL, szString, NULL, MB_ICONEXCLAMATION);
        return IDS_ERR_CREATE_WINDOW;
40    }

    cwCenter(hWndMain);
    mode = d_READONLY|d_SINGLE;

45    ShowWindow(hWndMain, nCmdShow);          /* display main window */

    while(GetMessage(&msg, NULL, 0, 0))      /* Until WM_QUIT message */
    {
        TranslateMessage(&msg);
50    DispatchMessage(&msg);
    }

    /* Do clean up before exiting from the application */
    CwUnRegisterClasses();
55    return msg.wParam;
} /* End of WinMain */

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/*****
/*
/* Main Window Procedure
5 /*
/* This procedure provides service routines for the Windows events
/* (messages) that Windows sends to the window, as well as the user
/* initiated events (messages) that are generated when the user selects
/* the action bar and pulldown menu controls or the corresponding
10 /* keyboard accelerators.
/*
/*****
LONG FAR PASCAL WndProc(HWND hWnd, WORD Message, WORD wParam, LONG lParam)
{
15 HMENU      hMenu=0;          /* handle for the menu          */
HBITMAP      hBitmap=0;        /* handle for bitmaps          */
HDC           hDC;             /* handle for the display device */
PAINTSTRUCT ps;               /* holds PAINT information      */
int           nRc=0;           /* return code                  */
20
static HICON hIcon;
static short xIcon, yIcon, xClient, yClient;
short x, y;

25     switch (Message)
    {
    case WM_COMMAND:
        switch (wParam)
        {
30             case IDM_F_EXIT:
                SendMessage(hWnd, WM_CLOSE, 0, 0L);
                break;

            case IDM_H_ABOUT:
35             {
                FARPROC lpfnABOUTBOXMsgProc;

                lpfnABOUTBOXMsgProc =
MakeProcInstance((FARPROC)ABOUTBOXMsgProc, hInst);
40                 nRc = DialogBox(hInst, (LPSTR)"ABOUTBOX", hWnd,
lpfnABOUTBOXMsgProc);
                FreeProcInstance(lpfnABOUTBOXMsgProc);
            }
            break;

45             case IDM_L_CPC:
                {
                    FARPROC lpfnCPC2MsgProc;

50                     lpfnCPC2MsgProc = MakeProcInstance((FARPROC)CPC2MsgProc,
hInst);
                    nRc = DialogBox(hInst, MAKEINTRESOURCE(100), hWnd,
lpfnCPC2MsgProc);
                    FreeProcInstance(lpfnCPC2MsgProc);
55                 }
                break;

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        default:
            return DefWindowProc(hWnd, Message, wParam, lParam);
    }
    break;          /* End of WM_COMMAND */
5
case WM_CREATE:
    hIcon = LoadIcon(hInst, szAppName);
    xIcon = GetSystemMetrics(SM_CXICON);
    yIcon = GetSystemMetrics(SM_CYICON);
10
    hWhiteBrush = CreateSolidBrush(0x00FFFFFF);
    hBlackBrush = CreateSolidBrush(0x00000000);
    getcwd(CPCPath, sizeof(CPCPath)-5);
    nRc = strlen(CPCPath);
15
    if (CPCPath[nRc - 1] != '\\')
        strcat(CPCPath, "\\");
    strcat(CPCPath, "CPC");
    break;

20
case WM_MOVE:
    break;

    case WM_SIZE:
        xClient = LOWORD (lParam);
25
        yClient = HIWORD (lParam);
        break;

    case WM_PAINT:
        memset(&ps, 0x00, sizeof(PAINTSTRUCT));
30
        hDC = BeginPaint(hWnd, &ps);

        // Included in case the background is not a pure color
        SetBkMode(hDC, TRANSPARENT);

35
        for (y = 25; y < yClient; y += 2 * yIcon)
            for (x = 25; x < xClient; x += 2 * xIcon)
                DrawIcon(hDC, x, y, hIcon);

        EndPaint(hWnd, &ps);
40
        break;

case WM_CLOSE: /* close the window */
    DestroyWindow(hWnd);
    if (hWnd == hWndMain)
45
        PostQuitMessage(0); /* Quit the application */
    break;

case WM_DESTROY:
    DeleteObject(hWhiteBrush);
50
    DeleteObject(hBlackBrush);
    if (bHelpCalled)
        WinHelp(hWnd, lpHelpFile, HELP_QUIT, NULL);
    break;

55
default:
    return DefWindowProc(hWnd, Message, wParam, lParam);

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    }
    return 0L;
} /* End of WndProc */

5
/*****
/*
          */
/* Dialog Window Procedure
10      */
/*
          */
/*
          */
15 /*****
BOOL FAR PASCAL ABOUTBOXMsgProc(HWND hWndDlg, WORD Message, WORD wParam, LONG
lParam)
{
    switch(Message)
20     {
        case WM_INITDIALOG:
            cwCenter(hWndDlg);
            /* initialize working variables */
            break; /* End of WM_INITDIALOG */

25     case WM_CLOSE:
            /* Closing the Dialog behaves the same as Cancel */
            PostMessage(hWndDlg, WM_COMMAND, IDCANCEL, 0L);
            break; /* End of WM_CLOSE */

30     case WM_COMMAND:
            switch(wParam)
            {
                case IDOK:
35                 EndDialog(hWndDlg, TRUE);
                break;
                case IDCANCEL:
                    /* Ignore data values entered into the controls */
40                     /* and dismiss the dialog window returning FALSE */
                    EndDialog(hWndDlg, FALSE);
                    break;
            }
            break; /* End of WM_COMMAND */

45     default:
            return FALSE;
    }
    return TRUE;
} /* End of ABOUTBOXMsgProc */

50

/*****
/*
          */
/* nCwRegisterClasses Function
55      */
/*
          */

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/* The following function registers all the classes of all the windows */
/* associated with this application. The function returns an error code */
/* if unsuccessful, otherwise it returns 0. */
/*
5  /*****
int nCwRegisterClasses(void)
{
    WNDCLASS  wndclass;      /* struct to define a window class */
    memset(&wndclass, 0x00, sizeof(WNDCLASS));

10

    /* load WNDCLASS with window's characteristics */
    wndclass.style = CS_HREDRAW | CS_VREDRAW | CS_BYTEALIGNWINDOW;
    wndclass.lpfnWndProc = WndProc;
15  /* Extra storage for Class and Window objects */
    wndclass.cbClsExtra = 0;
    wndclass.cbWndExtra = 0;
    wndclass.hInstance = hInst;
    wndclass.hIcon = LoadIcon(hInst, "AMP_FIND");
20  wndclass.hCursor = LoadCursor(NULL, IDC_ARROW);
    /* Create brush for erasing background */
    wndclass.hbrBackground = (HBRUSH)(COLOR_WINDOW+1);
    wndclass.lpszMenuName = szAppName; /* Menu Name is App Name */
    wndclass.lpszClassName = szAppName; /* Class Name is App Name */
25  if(!RegisterClass(&wndclass))
    return -1;

    return(0);
30 } /* End of nCwRegisterClasses */

/*****
/*  cwCenter Function */
35  /*
/*  centers a window based on the client area of its parent */
/*
/*****
void cwCenter(HWND hWnd)
40  {
    RECT rect;

    GetWindowRect(hWnd, &rect); /* get dialog box dimensions */
    rect.bottom -= rect.top; /* compute window height */
45  rect.right -= rect.left; /* compute window width */

    MoveWindow(hWnd, (xScreen/2) - (rect.right/2), (yScreen/2) -
(rect.bottom/2),
                    rect.right, rect.bottom, FALSE);
50  }

/*****
/*  CwUnRegisterClasses Function */
55  /*
/*  Deletes any references to windows resources created for this */
/*  application, frees memory, deletes instance, handles and does */

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/* clean up prior to exiting the window */
/*
/*****
5 void CwUnRegisterClasses(void)
{
    WNDCLASS wndclass; /* struct to define a window class */
    memset(&wndclass, 0x00, sizeof(WNDCLASS));

    UnregisterClass(szAppName, hInst);
10 } /* End of CwUnRegisterClasses */

15 /*****
/*
/* Dialog Window Procedure */
/*
/* This procedure is associated with the dialog box that is included in */
20 /* the function name of the procedure. It provides the service routines */
/* for the events (messages) that occur because the end user operates */
/* one of the dialog box's buttons, entry fields, or controls. */
/*
/*****
25 BOOL FAR PASCAL CPC2MsgProc(HWND hWndDlg, WORD Message, WORD wParam, LONG
lParam)
{

    POINT point;
30     int i, State, rc, *LenPtr;
    long RecNum, *RecPtr;
    DWORD Index;
    static WORD LastHelpID = HELPID_NO_HELP;

35 #define RADIO_BUTTON 1
#define LISTBOX 2
#define LISTBOX_TEXT 3
#define LISTBOX_RADIO 4

40 #define SELECTABLE 0
#define UNSELECTABLE 1
#define MARKED 2
#define SELECTED 3
#define FORCED 4

45 #include "cpc.inc"

    switch(Message)
    {
50     case WM_INITDIALOG:
        DBFFileHandle[CPC_DBF] = (DBF)0;
        OpenStructDatabase(CPCDatabase);
        if (DBFFileHandle[CPC_DBF] == (DBF)0)
            SendMessage(hWndDlg, WM_CLOSE, 0, 0L);
55 // Quit dialog box
        else

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        SendMessage(hWndDlg, WM_COMMAND, ID_CLEAR_ALL, 0L);           //
Initialize entire dialog box
        cwCenter(hWndDlg);
        break; // End of WM_INITDIALOG
5
        case WM_CLOSE:
            PostMessage(hWndDlg, WM_COMMAND, IDCANCEL, 0L);
            break;

10        case WM_CTLCOLOR:
            //          if (HIWORD(lParam) == CTLCOLOR_BTN || HIWORD(lParam) ==
CTLCOLOR_LISTBOX)
                if (HIWORD(lParam) == CTLCOLOR_BTN)
                    {
15                        i = FindCurrentID(GetWindowWord(LOWORD(lParam), GWW_ID),
&Features[0], (int)(sizeof Features / sizeof Features[0]));
                        if (i > 0 && Features[i].CurState == SELECTED)
                            {
20                                SetTextColor((HDC)wParam, RGB(255, 255, 255));
                                // Text Color White
                                SetBkColor((HDC)wParam, RGB(0, 0, 0));
                                // Black Background color
                                SetBkMode( (HDC)wParam, TRANSPARENT);

25                                //          UnrealizeObject(hBlackBrush);
                                //          point.x = point.y = 0;
                                //          ClientToScreen(hWndDlg, &point);
                                //          SetBrushOrg(wParam, point.x, point.y);

30                                return (DWORD)hBlackBrush;
                            }
                    }
            //          else if (HIWORD(lParam) == CTLCOLOR_MSGBOX)
            //          SetTextColor(wParam, 0x00000000);           // Text
35            Color Black
            //          return ((DWORD) hWhiteBrush);
            //          return (DWORD) NULL;

        case WM_COMMAND:
40            switch(wParam)
            {
                case ID_LISTBOX_ARRANGE: // List box
                    if (HIWORD(lParam) == LBN_DBLCLK)
                        SendMessage(hWndDlg, WM_COMMAND, IDOK, 0L);
45            else if (HIWORD(lParam) == LBN_SELCHANGE)
                {
                    Index = SendDlgItemMessage(hWndDlg, wParam,
LB_GETCURSEL, 0, 0L);
                    if (Index != LB_ERR)
50                        SendDlgItemMessage(hWndDlg, wParam, LB_GETTEXT,
(WORD)Index, (LONG)(LPSTR)szTempBuffer);
                    else
                        break;
                    for (i=0; i < (sizeof Features / sizeof Features[0]);
55            i++)
                        if (Features[i].DialogID == wParam &&

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                                (strcmp(szTempBuffer, Features[i].ItemText)
== 0) )
                                {
5                                LastHelpID = Features[i].HelpID;
                                if (Features[i].CurState != SELECTED)
                                    // KWK
                                    {
                                ChangeGroupsState(Features[i].DBFeatureNum,
10                                &Features[0], (int)(sizeof
                                Features / sizeof Features[0]));
                                Features[i].CurState = MARKED;
                                }
                                break;
15                                }
                                }
                                break;

                                case IDCANCEL:
20                                CloseStructDatabase(CPCDatabase);
                                EndDialog(hWndDlg, FALSE);
                                break;

                                case IDOK:                                // *** Search!!! ***
25                                for (i=0; i < (sizeof Features / sizeof Features[0]); i++)
                                {
                                    if (Features[i].CurState == MARKED)
                                    {
                                        if (List1Len < 1)
30                                        {
                                            RecPtr = &MatchingParts[0];
                                            LenPtr = &List1Len;
                                        }
                                        else
35                                        {
                                            RecPtr = &Matching2[0];
                                            LenPtr = &List2Len;
                                            List2Len = 0;
                                        }
40
                                rc = dXgetrno(IndexPtr[Features[i].DBFeatureNum],
                                Features[i].Abbrev, &RecNum);
                                while (RecNum != 0L)
45                                {
                                    *RecPtr = RecNum;                                /* Add Record
                                    # to list */
                                    RecPtr++;                                /* Move
ptr to next location */
50                                    ++(*LenPtr);                                /*
                                    Increase the list length */
                                    RecNum =
                                    FindNextKey(IndexPtr[Features[i].DBFeatureNum], Features[i].Abbrev);
                                }
55                                if (List2Len > 0)                                /* More than
1 feature marked! */
                                    MergeRecordLists();

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        Features[i].CurState = SELECTED;
        ReadRecords(&Features[0], (int)(sizeof Features /
sizeof Features[0]));
        UpdateControlStatus(hWndDlg, List1Len,
5  &Features[0], (int)(sizeof Features / sizeof Features[0]));
        InvalidateRect(GetDlgItem(hWndDlg,
Features[i].DialogID), NULL, TRUE);
    }
10    }
    break;

    case ID_HELP:
        WinHelp(hWndDlg, lpHelpFile, HELP_CONTEXT,
(DWORD)LastHelpID);
15    bHelpCalled = TRUE;
    break;

    case ID_CLEAR_ALL:
        List1Len = List2Len = 0; /* Reset to 0
20    matching parts */
        SetDlgItemText(hWndDlg, ID_QTY_MATCHING, (LPSTR)NULL);
        SetDlgItemText(hWndDlg, ID_PART_NUMBER, (LPSTR)NULL);
        for (i=0; i < (sizeof Features / sizeof Features[0]); i++)
        {
25            Features[i].CurState = SELECTABLE;
            Features[i].Qty = 0;

            switch (Features[i].IDType)
            {
30            case RADIO_BUTTON:
                EnableWindow(GetDlgItem(hWndDlg,
Features[i].DialogID), 1); /* Enable */
                SendDlgItemMessage(hWndDlg, Features[i].DialogID,
BM_SETCHECK, (WORD)0, 0L); /* Un-mark it */
35                InvalidateRect(GetDlgItem(hWndDlg,
Features[i].DialogID), NULL, TRUE);
                break;

                case LISTBOX:
40                EnableWindow(GetDlgItem(hWndDlg,
Features[i].DialogID), 1); /* Enable */
                SendDlgItemMessage(hWndDlg, Features[i].DialogID,
LB_RESETCONTENT, 0, 0L); /* Nothing selected */
                SendDlgItemMessage(hWndDlg, Features[i].DialogID,
45                LB_SETCURSEL, -1, 0L); /* Nothing selected */
                break;

                case LISTBOX_TEXT:
                    SendDlgItemMessage(hWndDlg, Features[i].DialogID,
50                LB_ADDSTRING, 0, (LONG)(LPSTR)Features[i].ItemText);
                    break;
            }
        }
        /* end of for */
        break;
55    default: /* default for all radio buttons */

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        i = FindCurrentID(wParam, &Features[0], (int)(sizeof Features
/ sizeof Features[0]));
        if (i < 0)
            break;
5
        State = Features[i].CurState;          /* Save the current
state of button */

        //
10        // Change all buttons in this group to SELECTABLE state
        // unless the user has already picked this item and said
SEARCH
        if (Features[i].CurState != SELECTED)
            ChangeGroupsState(Features[i].DBFeatureNum,
15        SELECTABLE,
                                &Features[0], (int)(sizeof Features /
sizeof Features[0]));

        /* The following if is used to make radio buttons behave
20        differently
            than normal by toggling on/off when repeatedly selected
        */
        if (State == MARKED)
        {
25        SendDlgItemMessage(hWndDlg, Features[i].DialogID,
BM_SETCHECK, (WORD)0, 0L);    /* Un-mark it */
            Features[i].CurState = SELECTABLE;
        }
        else
30        {
            if (Features[i].CurState != SELECTED)    // If Not
already SELECTED (hard selection)
                Features[i].CurState = MARKED;        // Flag
this as Marked (soft selection)
35        }
            LastHelpID = Features[i].HelpID;
            break;
        }
        break;    // End of WM_COMMAND
40
        default:
            return FALSE;
    }
    return TRUE;
45 } // End of CPC2MsgProc Dialog BOX !!!!!

/*****
/*
50 /* MergeRecordLists()
/*
/* This function is responsible for creating a list of records which is */
/* the subset of common records from 2 lists. This function takes each */
/* record from list 2 and checks it against list 1, if it is found then */
55 /* the record is left in list 2, if it is not in list 1 then the record */
/* number is forced to 0. After all records are checked in list 2, the */
/* records which are non-zero in list 2 are used to create a new list 1.*/

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/*****
void MergeRecordLists(void)
{
    int Record1Ptr, Record2Ptr;
5    BOOL Found;
    long *RecPtr;

    for (Record2Ptr=0; Record2Ptr < List2Len; Record2Ptr++)
    {
10        Found = FALSE;
        for (Record1Ptr=0; Record1Ptr < List1Len; Record1Ptr++)
        {
            if (MatchingParts[Record1Ptr] == Matching2[Record2Ptr])
            {
15                Found = TRUE;
                break;
            }
        }
        if (!Found) // Not Found, so
20 mark it as deleted
            Matching2[Record2Ptr] = 0L;
    }

    List1Len = 0;
25    RecPtr = &MatchingParts[0];
    for (Record2Ptr=0; Record2Ptr < List2Len; Record2Ptr++)
    {
        if (Matching2[Record2Ptr] > 0)
        {
30            *RecPtr = Matching2[Record2Ptr];    // Add Record # to list
            RecPtr++;                            // Move ptr
            to next location
            List1Len++;                            // Increase
            the list length
35        }
    }
}

40

/*****
/*
/* UpdateControlStatus()
45 /*
/* This function is responsible for updating all radio buttons and list
/* boxes contained in the dialog box. This function is called after
/* the matching Qty for each feature has been determined. The update
/* mainly consists of the following rules:
50 /*
/* 1) If the Qty for a radio button is 0 then it is unselec-
/* table and is grayed and the button is empty (not checked)
/* 2) If the Qty for a radio button is equal to the TotalQty of
/* matching parts then the button is disabled (grayed). If it
55 /* is matching in all parts because it is a feature selected by
/* the user then it will be displayed in inverse when the message*
/* for WM_CTL_COLOR is processed.
*/

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/* 3) If the Qty for a list box item is 0 then it is deleted from */
/* the scroll list. */
/* 4) If the Qty for a list box item is equal to the TotalQty of */
/* matching parts, then the list box is disabled. */
5 /* */
/* In addition to these main steps the Qty of matching parts is */
/* displayed and if there is only 1 part then the matching part */
/* number is also displayed. */
/*****/
10 void UpdateControlStatus(HWND hWndDlg, int TotalQty, struct FEATURES *Info, int
Size)
{
    int i;
    DWORD Index;
15
    wsprintf(szTempBuffer, "%d", TotalQty);
    SetDlgItemText(hWndDlg, ID_QTY_MATCHING, (LPSTR)szTempBuffer);

    if (TotalQty == 1)
20 SetDlgItemText(hWndDlg, ID_PART_NUMBER,
(LPSTR)GetFieldValue(CPC_DBF, FIELD_PART_NUM));

    for (i=0; i < Size; i++)
25 {
        switch (Info[i].IDType)
        {
            case RADIO_BUTTON:
                if (Info[i].Qty == 0) // Not valid
30 {
                    EnableWindow(GetDlgItem(hWndDlg, Info[i].DialogID), 0);
// Disable
                    SendDlgItemMessage(hWndDlg, Info[i].DialogID,
BM_SETCHECK, (WORD)0, 0L); // UnMark it
35 }
                    else if (Info[i].Qty == TotalQty) // Forced/Selected
                    {
                        if (Info[i].CurState != SELECTED) // If Not SELECTED
(hard selection)
40 EnableWindow(GetDlgItem(hWndDlg,
Info[i].DialogID), 0); // Disable when FORCED
                        SendDlgItemMessage(hWndDlg, Info[i].DialogID,
BM_SETCHECK, (WORD)1, 0L); // Mark it
                    }
45 break;

            case LISTBOX_TEXT:
                Index = SendDlgItemMessage(hWndDlg, Info[i].DialogID,
LB_FINDSTRING, -1, (LONG)(LPSTR)Info[i].ItemText);
50 if (Index == LB_ERR) // Item not
in list box
                    break;
                    if (Info[i].Qty == 0) // Not valid
                        SendDlgItemMessage(hWndDlg, Info[i].DialogID,
55 LB_DELETETESTRING, (WORD)Index, 0L);
// else if (Info[i].Qty == TotalQty) // Forced/Selected

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//                                EnableWindow(GetDlgItem(hWndDlg, Info[i].DialogID), 0);
// Disable List Box
//                                break;
//                                }
5      } // end of for
//                                }

/*****
10 /*
/* ReadRecords()
/*
/* This function is responsible for reading each record number contained*/
/* in the "MatchingParts" record list (for a length of "List1Len"). */
15 /* Prior to reading the records all features Qty is reset to 0. */
/* After each record is read each feature value specified by that part */
/* (in separate fields) is located in the local data structure and its */
/* Qty is incremented. This procedure is repeated for each record. */
/*****/
20 void ReadRecords(struct FEATURES *Info, int Size)
{
    char *ptr;
    int i, FeatNum, RecordIndex;

25     for (i=0; i < Size; i++)
        Info[i].Qty = 0;

    for (RecordIndex=0; RecordIndex < List1Len; RecordIndex++)
    {
30         GetRecValues(CPC_DBF, MatchingParts[RecordIndex]);

        for (FeatNum = 1; FeatNum < 10; FeatNum++)
        {
            wsprintf(szTempBuffer, "FEAT%d", FeatNum);
35             ptr = GetFieldValue(CPC_DBF, szTempBuffer);
            if (isalnum(*ptr))
            {
                for (i=0; i < Size; i++)
                {
40                     if (strcmp(Info[i].Abbrev, ptr) == 0)
                        {
                            Info[i].Qty++;
                            break;
                        }
                    }
                }
            }
        }
    }
50 }

/*****
/*
55 /* ChangeGroupsState
/*
/* This function is called as the user clicks on radio buttons. Its */

```

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```

/* purpose is to update all features in a certain group to a have a      */
/* specified NewState value (usually "SELECTABLE").  A group would be    */
/* for example all Contact Plating types.                                */
/*****
5 void ChangeGroupsState(char GroupNum, char NewState, struct FEATURES *Info, int
Size)
{
    int i;

10    for (i=0; i < Size; i++)
    {
        if (Info[i].DBFeatureNum == GroupNum)
            Info[i].CurState = NewState;
    }
15 }

/*****
/*
/* FindCurrentID
20 /*
/* This function is called whenever we need to know which record in our */
/* memory based data structure contains the information for a specific */
/* dialog ID.
/*****
25 int FindCurrentID(WORD SelectedID, struct FEATURES *Info, int Size)
{
    int i;

    for (i=0; i < Size; i++)
30    {
        if (Info[i].DialogID == SelectedID)
            return i;
    }
    return -1;
35 }

```


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```

static struct FEATURES Features[] =
{
    /*
    DialogID          IDType DBFeatureNum  Abbrev  CurState
5   ItemText        Qty          HELP_ID

=====
    */
10   ID_LISTBOX_ARRANGE,  LISTBOX,  3,  "X",
    SELECTABLE,  NULL,  0,  HELPID_NO_HELP,

    ID_LISTBOX_ARRANGE,  LISTBOX_TEXT,  3,  "1104 ",  SELECTABLE,
    "11-4",  0,  HELPID_CPC_ARR_11_4,
15   ID_LISTBOX_ARRANGE,  LISTBOX_TEXT,  3,  "1108 ",  SELECTABLE,
    "11-8",  0,  HELPID_NO_HELP,
    ID_LISTBOX_ARRANGE,  LISTBOX_TEXT,  3,  "1109 ",  SELECTABLE,
    "11-9",  0,  HELPID_NO_HELP,
    ID_LISTBOX_ARRANGE,  LISTBOX_TEXT,  3,  "1307 ",  SELECTABLE,
20   "13-7",  0,  HELPID_NO_HELP,
    ID_LISTBOX_ARRANGE,  LISTBOX_TEXT,  3,  "1309 ",  SELECTABLE,
    "13-9",  0,  HELPID_CPC_ARR_13_9,
    ID_LISTBOX_ARRANGE,  LISTBOX_TEXT,  3,  "1405 ",  SELECTABLE,
    "14-5",  0,  HELPID_NO_HELP,
25   ID_LISTBOX_ARRANGE,  LISTBOX_TEXT,  3,  "1407 ",  SELECTABLE,
    "14-7",  0,  HELPID_NO_HELP,
    ID_LISTBOX_ARRANGE,  LISTBOX_TEXT,  3,  "1703 ",  SELECTABLE,
    "17-3",  0,  HELPID_NO_HELP,
    ID_LISTBOX_ARRANGE,  LISTBOX_TEXT,  3,  "1709 ",  SELECTABLE,
30   "17-9",  0,  HELPID_NO_HELP,
    ID_LISTBOX_ARRANGE,  LISTBOX_TEXT,  3,  "1714 ",  SELECTABLE,
    "17-14",  0,  HELPID_NO_HELP,
    ID_LISTBOX_ARRANGE,  LISTBOX_TEXT,  3,  "1716 ",  SELECTABLE,
    "17-16",  0,  HELPID_NO_HELP,
35   ID_LISTBOX_ARRANGE,  LISTBOX_TEXT,  3,  "1728 ",  SELECTABLE,
    "17-28",  0,  HELPID_NO_HELP,
    ID_LISTBOX_ARRANGE,  LISTBOX_TEXT,  3,  "2203 ",  SELECTABLE,
    "22-3",  0,  HELPID_NO_HELP,
    ID_LISTBOX_ARRANGE,  LISTBOX_TEXT,  3,  "2214 ",  SELECTABLE,
40   "22-14",  0,  HELPID_NO_HELP,
    ID_LISTBOX_ARRANGE,  LISTBOX_TEXT,  3,  "2216 ",  SELECTABLE,
    "22-16",  0,  HELPID_NO_HELP,
    ID_LISTBOX_ARRANGE,  LISTBOX_TEXT,  3,  "2319 ",  SELECTABLE,
    "23-19",  0,  HELPID_NO_HELP,
45   ID_LISTBOX_ARRANGE,  LISTBOX_TEXT,  3,  "2324 ",  SELECTABLE,
    "23-24",  0,  HELPID_NO_HELP,
    ID_LISTBOX_ARRANGE,  LISTBOX_TEXT,  3,  "2228 ",  SELECTABLE,
    "22-28",  0,  HELPID_NO_HELP,
    ID_LISTBOX_ARRANGE,  LISTBOX_TEXT,  3,  "2337 ",  SELECTABLE,
50   "23-37",  0,  HELPID_NO_HELP,
    ID_LISTBOX_ARRANGE,  LISTBOX_TEXT,  3,  "2357 ",  SELECTABLE,
    "23-57",  0,  HELPID_NO_HELP,
    ID_LISTBOX_ARRANGE,  LISTBOX_TEXT,  3,  "2363 ",  SELECTABLE,
    "23-63",  0,  HELPID_NO_HELP,
55   ID_LISTBOX_ARRANGE,  LISTBOX_TEXT,  3,  "2307 ",  SELECTABLE,
    "23-7",  0,  HELPID_NO_HELP,

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	ID_LISTBOX_ARRANGE,	LISTBOX_TEXT, 3,	"2313M",	SELECTABLE,
	"23-13M (combo)", 0,	HELPID_NO_HELP,		
	ID_LISTBOX_ARRANGE,	LISTBOX_TEXT, 3,	"2316M",	SELECTABLE,
	"23-16M (combo)", 0,	HELPID_NO_HELP,		
5	ID_LISTBOX_ARRANGE,	LISTBOX_TEXT, 3,	"2322M",	SELECTABLE,
	"23-22M (combo)", 0,	HELPID_NO_HELP,		
	ID_LISTBOX_ARRANGE,	LISTBOX_TEXT, 3,	"2807 ",	SELECTABLE,
	"28-7", 0,	HELPID_NO_HELP,		
	ID_LISTBOX_ARRANGE,	LISTBOX_TEXT, 3,	"2813M",	SELECTABLE,
10	"28-13M (combo)", 0,	HELPID_NO_HELP,		
	ID_LISTBOX_ARRANGE,	LISTBOX_TEXT, 3,	"2816M",	SELECTABLE,
	"28-16M (combo)", 0,	HELPID_NO_HELP,		
	ID_LISTBOX_ARRANGE,	LISTBOX_TEXT, 3,	"2822M",	SELECTABLE,
	"28-22M (combo)", 0,	HELPID_NO_HELP,		
15	ID_LISTBOX_ARRANGE,	LISTBOX_TEXT, 3,	"2824 ",	SELECTABLE,
	"28-24", 0,	HELPID_NO_HELP,		
	ID_LISTBOX_ARRANGE,	LISTBOX_TEXT, 3,	"2837 ",	SELECTABLE,
	"28-37", 0,	HELPID_NO_HELP,		
	ID_LISTBOX_ARRANGE,	LISTBOX_TEXT, 3,	"2857 ",	SELECTABLE,
20	"28-57", 0,	HELPID_NO_HELP,		
	ID_LISTBOX_ARRANGE,	LISTBOX_TEXT, 3,	"2863 ",	SELECTABLE,
	"28-63", 0,	HELPID_NO_HELP,		
25	ID_SQ_FLANG_RECEPT,	RADIO_BUTTON, 1,	"SQFL ",	SELECTABLE,
	NULL, 0,	HELPID_NO_HELP,		
	ID_FREE_HANG_RECEPT,	RADIO_BUTTON, 1,	"FREE ",	SELECTABLE,
	NULL, 0,	HELPID_NO_HELP,		
	ID_FEED_RECEPT,	RADIO_BUTTON, 1,	"FEED ",	SELECTABLE,
30	NULL, 0,	HELPID_NO_HELP,		
	ID_PLUG,	RADIO_BUTTON, 1,	"PLUG ",	SELECTABLE,
	NULL, 0,	HELPID_NO_HELP,		
35	ID_SERIES1,	RADIO_BUTTON, 2,	"SER1 ",	SELECTABLE, NULL,
	0, HELPID_CPC_SERIES,			
	ID_SERIES1_VDE,	RADIO_BUTTON, 2,	"SER1V",	SELECTABLE,
	NULL, 0, HELPID_CPC_SERIES,			
	ID_SERIES2,	RADIO_BUTTON, 2,	"SER2 ",	SELECTABLE, NULL,
	0, HELPID_CPC_SERIES,			
40	ID_SERIES3,	RADIO_BUTTON, 2,	"SER3 ",	SELECTABLE, NULL,
	0, HELPID_CPC_SERIES,			
	ID_SERIES4,	RADIO_BUTTON, 2,	"SER4 ",	SELECTABLE, NULL,
	0, HELPID_CPC_SERIES,			
45	ID_NO_CONTACTS,	RADIO_BUTTON, 4,	"NOCON",	SELECTABLE,
	NULL, 0, HELPID_NO_HELP,			
	ID_SQ_POSTED,	RADIO_BUTTON, 4,	"SQ ",	SELECTABLE, NULL,
	0, HELPID_NO_HELP,			
	ID_ROUND_POSTED,	RADIO_BUTTON, 4,	"ROUND",	SELECTABLE,
50	NULL, 0, HELPID_NO_HELP,			
	ID_ROUND_SOLID,	RADIO_BUTTON, 4,	"FEEDP",	SELECTABLE,
	NULL, 0, HELPID_NO_HELP,			
	ID_SOLDER,	RADIO_BUTTON, 4,	"SOLDR",	SELECTABLE,
	NULL, 0, HELPID_NO_HELP,			
55	ID_GOLD_SELECT,	RADIO_BUTTON, 5,	"GOLDS",	SELECTABLE,
	NULL, 0, HELPID_NO_HELP,			

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    ID_GOLD,          RADIO_BUTTON,  5,          "GOLD ",  SELECTABLE,
NULL,                0,          HELPID_NO_HELP,
    ID_TIN,          RADIO_BUTTON,  5,          "TIN  ",  SELECTABLE,  NULL,
0,          HELPID_NO_HELP,
5
    ID_PLASTIC,      RADIO_BUTTON,  6,          "PL   ",  SELECTABLE,  NULL,
0,          HELPID_NO_HELP,
    ID_METAL,        RADIO_BUTTON,  6,          "MET  ",  SELECTABLE,
NULL,            0,          HELPID_NO_HELP,
10
    ID_SEX_NORMAL,   RADIO_BUTTON,  7,          "STDS ",  SELECTABLE,
NULL,            0,          HELPID_NO_HELP,
    ID_SEX_REVERSE,  RADIO_BUTTON,  7,          "REVS ",  SELECTABLE,
NULL,            0,          HELPID_NO_HELP,
15
    ID_TETRASEAL,    RADIO_BUTTON,  8,          "TETR ",  SELECTABLE,  NULL,
0,          HELPID_NO_HELP,
    ID_NO_TETRASEAL, RADIO_BUTTON,  8,          "NOTET",  SELECTABLE,
NULL,            0,          HELPID_NO_HELP,
20
    ID_NUM_STANDARD, RADIO_BUTTON,  9,          "STDN ",  SELECTABLE,
NULL,            0,          HELPID_NO_HELP,
    ID_NUM_REVERSE,  RADIO_BUTTON,  9,          "REVN ",  SELECTABLE,
NULL,            0,          HELPID_NO_HELP,
25 };

```

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